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Zsolcsak et al.

US D772,546 S

(45) **Date of Patent:** ** Nov. 29, 2016

(54) INSOLE

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USPC **D2/961**

Field of Classification Search

USPC D2/896, 908, 925, 946, 947, 949, 950, D2/954, 961, 968; 36/2.6, 115, 116, 137, 36/139–141; 219/211; 301/5.301, 5.303

CPC A43B 7/04; A43B 7/16; A43B 7/22; A43B 13/38; A43B 13/40; A61F 5/14; A63C 17/08

See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

2,680,918 A 6/1952 Behner 3,360,633 A * 12/1967 Weisberger A43B 3/0005 219/211

3,585,736 A 6/1971 Polichena 3,621,191 A 11/1971 Cornwell

3/1974 Duval 3,800,133 A (Continued)

FOREIGN PATENT DOCUMENTS

2281677 5/1998 CN CN 2515992 Y 10/2002 (Continued)

OTHER PUBLICATIONS

International Search Report and Written Opinion for International application No. PCT/US12/23986 filed Feb. 2, 2012 and mailed on May 23, 2012, (7 pages).

(Continued)

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CLAIM

The ornamental design for an insole, as shown and described.

DESCRIPTION

FIG. 1 is a top front perspective view of a left side insole, showing our new design;

FIG. 2 is a top plan view thereof;

FIG. 3 is a bottom plan view thereof;

FIG. 4 is a side view thereof;

FIG. 5 is an opposite side view thereof;

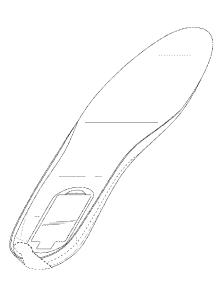
FIG. 6 is a front view thereof; and,

FIG. 7 is a back view thereof.

A right foot insole is a mirror image of FIGS. 1-7.

The broken lines on the side walls in FIGS. 1-5 and 7 are included to show an unclaimed abutment between a first layer and a second layer of the insole only and form no part of the claimed design. All broken lines in FIGS. 1-7 are included to show unclaimed subject matter and form no part of the claimed design.

1 Claim, 6 Drawing Sheets



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(56)	Ref	feren	ces Cited			3,958 B2	1/2014		
	IIS PAT	FNT	DOCUMENTS			9,178 S 9,179 S		Ashida et al. Alexander	
	0.5. TAI	1.71	DOCOMENTS		D700	,135 S	2/2014	Sato et al.	
4,470,26			Lehovec et al.			3,943 B1 5,329 B2		Larsen et al. Robinson et al.	
4,507,87 4,665,30			Vaccari et al. Bondy			7,441 B2		Vazquez	
4,823,48			Lakic		8,850),716 B2		Whitehead et al.	
D303,52	4 S 9/.		Siegner et al.			9,428 B1 9,429 B1		Zsolcsak et al. Zsolcsak et al.	
4,894,93			Senee et al. Baggio et al.			1,177 B2		Whitehead et al.	
4,910,88 5,041,71			Shay, III et al.		2003/011	4902 A1	6/2003	Prescott	
D320,21	.2 S 9/.	1991	Someya		2003/014: 2004/0210		8/2003	Hsu Knowlton	
5,230,17			Dahle		2004/021		10/2004		
5,483,75 5,495,68		1996 1996	Silverman Chen		2005/002		2/2005	Johnson	
5,565,12	4 A 10/		Balzano		2005/0049	9653 A1*	3/2005	Wang	
5,592,75		1997	Cox Sunderland et al.		2005/0126	6049 A1	6/2005	Koenig	607/48
5,623,77 5,800,49			Patz et al.		2005/019			Arnold	
5,802,86			Strauss		2006/017		8/2006		
5,830,20			Muller		2006/0230 2006/0283			Vick et al. Carnes et al.	
5,875,57 5,882,10		1999 1999	Huang Galli		2007/0039			Axinte	
5,956,86			Spears		2007/019	3064 A1*	8/2007	Xu	
5,970,71			Arnold		2009/001	C715 A1	1/2000	37: -1	36/25 R
6,074,41 6,094,84		2000 2000	Haas et al.		2008/001e 2008/0069			Vickroy Yamauchi et al.	
D432,49			Killebrew et al.		2008/007			Levinson et al.	
6,125,63			Taylor et al.		2008/0083			Gentile et al.	
6,189,32 D440,20			Strauss et al. Huynh et al.		2008/019			Bourke et al.	
6,320,16			Hansen, Jr.		2009/0013 2010/0193		8/2010	Macher et al.	
6,523,83			Chang et al.		2010/019			Joseph et al.	
6,649,87 6,657,16			Cintron, Jr. et al. Koch		2011/008		4/2011		
D486,78	9 S 2/2	2004	Santiago		2011/010	7771 Al 4653 Al*		Crist et al.	E02C 7/09
6,701,63	9 B2 3/2	2004	Treptow et al.	A 42D 2/0005	2011/0204	4033 A1	8/2011	L1u	F03G //08 290/1 R
6,744,14	13 BZ * 0/2	2004	Chang	219/211	2011/029	6714 A1	12/2011	Holzer	
6,770,84	8 B2 8/2	2004	Haas et al.	213/211	2011/030		12/2011		
6,840,95		2005			2012/000:	5919 A1 0970 A1*	1/2012	Chen Kim	A 42 D 1/0054
6,841,75 6,865,82	1/ B2 1/. 25 B2 3/3	2005 2005	Marega et al. Bailey, Sr. et al.		2012/003	09/0 A1	2/2012	KIIII	36/25 R
7,022,09	3 B2 4/2	2006	Smith et al.		2013/0019	9503 A1	1/2013		
7,028,42	2 B1 * 4/2	2006	Lewis	A43B 1/0081 36/136	2013/0020	0986 A1*	1/2013	Linzon	
D528,07	'5 S 9/2	2006	Sugeno et al.	30/130	2013/008	5421 A1	4/2013	Gillespie et al.	320/107
D533,83	2 S 12/2	2006	Hock			6534 A1*		Woo	A61B 5/0002
7,152,34			Koenig						600/391
D538,22 D538,22	.5 S 3/.	2007	Lyman et al. Lyman et al.		2013/0110			Levinson et al.	
D546,27	7 S 7/2	2007	Andre et al.		2013/0139 2013/017			Burke et al. Kremer et al.	
7,244,25 D552,08		2007 2007			2013/018			Shapiro	
7,497,03			Vick et al.		2013/021			Rice et al.	
7,565,75	4 B1 7/2		Acheson et al.		2013/024			Kremer et al. Lupinek et al.	
D602,43 D609,18			Moussa Suzuki et al.		2014/0059 2014/018			Hakkala	
7,714,70			Daniel		2014/018			Krupenkin et al.	
7,716,85	66 B2 5/2	2010	Seipel		2014/022			Giedwoyn et al.	
7,726,04 7,823,30			Portnell Mann et al.		2014/027	7632 A1	9/2014	Walker	
D637,55	52 S = 5/2		Inman et al.			FOREIG	N PATE	NT DOCUMENT	2
7,985,50			Abe et al.			TORLIG	I I I I I I I	IVI DOCOMENT	S
D642,51 8,074,37			Inman et al. Macher et al.		CN		027 A	2/2010	
8,084,72			Haas et al.		CN DE	201976	877 U 143 U1	9/2011 4/2004	
D654,42	9 S 2/2	2012	Li et al.		DE		050 A1	12/2004	
D660,79 8,384,55			Tseng Ross et al.		DE	102008029	727 A1	12/2009	
8,397,51			Vistakula		EP EP		084 A2 696 B1	1/1988 7/1998	
D682,19	5 S 5/2	2013	Aglassinger		EP EP		918 A2	8/2010	
D685,72 D686,15			Lyman Kawase et al.		KR	20-0273	770	4/2002	
8,510,96		2013			KR WO	2009-0117 2006/111		11/2009 10/2006	
D689,01	9 S 9/2	2013	Sato et al.		WO	2008/006		1/2008	
D694,17			Buetow et al.		WO	2008/069		6/2008	
D698,31	.5 8 1/2	2014	Buetow et al.		WO	2008/069	524 A1	6/2008	

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(56)	References Cited							
	FOREIGN PATENT DOCUMENTS							
WO WO WO	2011057142 A2 5/2011 2013/101920 A1 7/2013 2014064518 A2 5/2014							

OTHER PUBLICATIONS

International Search Report and Written Opinion for International application No. PCT/US2014/072718 filed Dec. 30, 2014 and mailed on Apr. 28, 2015, (10 pages).

International Search Report and Written Opinion mailed on Apr. 22, 2013, for International Patent Application No. PCT/US2012/071797, filed Dec. 27, 2012, (9 pages).

International Search Report and Written Opinion mailed on Sep. 3, 2014, for International Patent Application No. PCT/US2014/033499, filed Apr. 9, 2014, (10 pages).

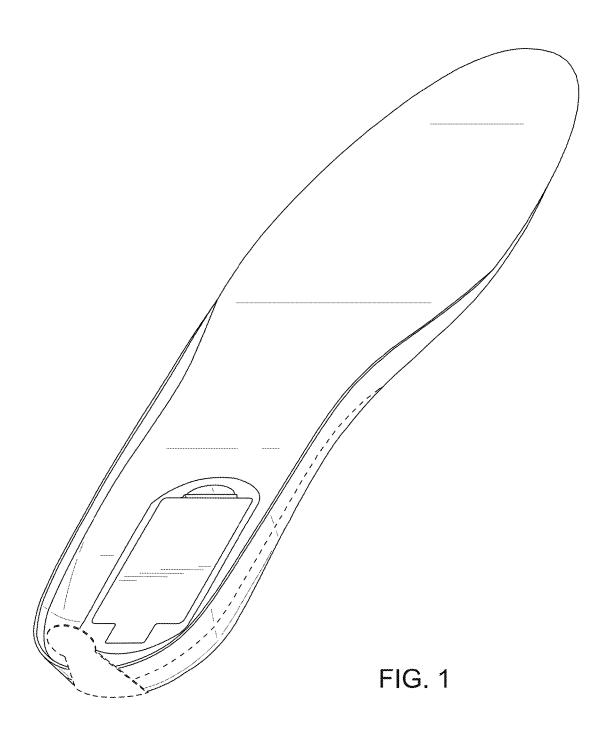
Kenisarin et al., 2007, Solar energy storage using phase change materials, Renewable and Sustainable Energy Reviews, 11(9):1913-1965.

Sharma et al., 2009, Review on thermal energy storage with phase change materials and applications, Renewable and Sustainable Energy Reviews, 13(2):318-345.

International Search Report and Written Opinion of the International Search Authority mailed Feb. 25, 2016 for International Application No. PCT/US2015/062458 (12 Pages).

^{*} cited by examiner

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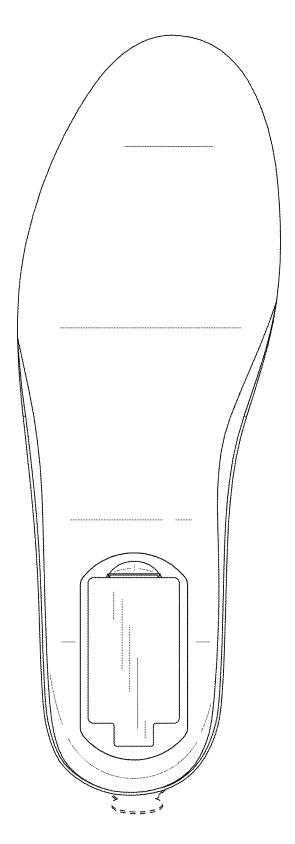


FIG. 2

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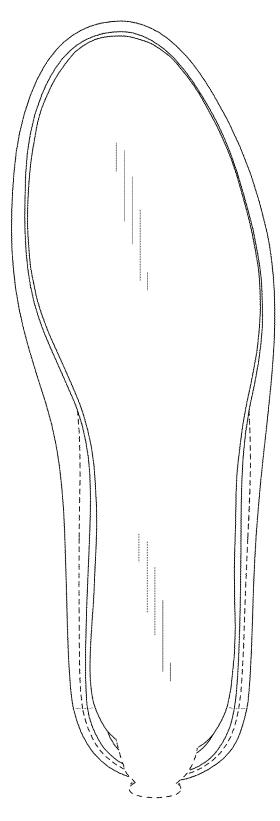


FIG. 3

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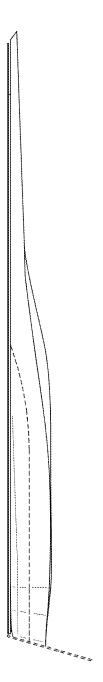


FIG. 4

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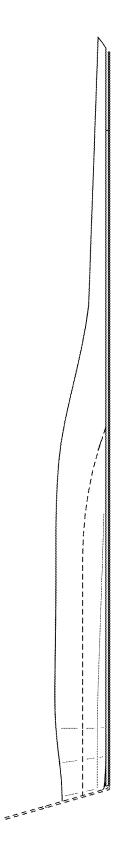
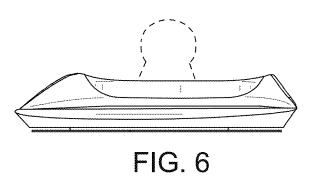


FIG. 5

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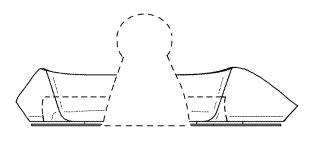


FIG. 7